<b>≎EPA</b>	United States Environment Washington, D Injection Well Mon	C 20460	
Year 2016	Month	Month	Month
Injection Pressure (PSI)	JANUARY	FEBRUARY	MARCH
1. Minimum	471.74	329.73	363.67
2. Average	751.25	426.65	-668.78
3. Maximum	1363,79	825.6	958.76
Injection Rate (Gal/Min)	JANUARY	FEBRUARY	MARCH
1. Minimum	0	0	0
2. Average	130.57	27.64	150.1
3. Maximum	335.26	219.19	218.17
Annular Pressure (PSI)	JANUARY	FEBRUARY	MARCH
1. Minimum	-0.99	-0.79	-1.09
2. Average	.21	1.4	0.43
3. Maximum	1.2	2.05	1.78
Injection Volume (Gal)	JANUARY	FEBRUARY	MARCH
1. Monthly Total	5,142,000	7,6,4700	4713400
2. Yearly Cumulative	5,142,000	5906700	10620,100
Temperature (F °)	JANUARY	FEBRUARY	MARCH
1. Minimum	N/A	1	
2. Average	N/A		,
3. Maximum	N/A		
рН	JANUARY	FEBRUARY	MARCH
1. Minimum	N/A		
2. Average	N/A		
3. Maximum	N/A		
Other			
			Permit Number
Name and Address of Permittee  East Cherry Creek Valley Water and Sanita	ation District 6201 S. Gun Club	Road Aurora. CO 80016	CO12143-08425
Name and Official Title (Please type or print) Scott Nicbur	Signature	-111.	Date Signed 04/05/2016

EPA Form 7520-8 TREV. 75110 CBI BLUE

Date 4 (1) Initial \_\_\_\_\_



## **Analytical Results**

TASK NO: 160224093

Report To: Clint Carter

Company: East Cherry Creek Valley Water & San. District

6201 S. Gun Club Road Aurora CO 80016

Bill To: Accounts Payable

Company: East Cherry Creek Valley Water & Sar

6201 S. Gun Club Road Aurora CO 80016

Task No.: 160224093

Client PO:

Client Project: Deep Well Samples

Date Received: 2/24/16

Date Reported: 3/15/16

Matrix: Wastewater

Customer Sample ID Deep Well

Sample Date/Time: 2/24/16 3:00 PM Lab Number: 160224093-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	2515.59 mg/L	EPA 300.0	0.01 mg/L	2/24/16	MBN
Nitrate Nitrogen	30.50 mg/L	EPA 300.0	0.05 mg/L	2/24/16	MBN
Nitrite Nitrogen	< 0.03 mg/L	EPA 300.0	0.03 mg/L	2/24/16	MBN
Specific Conductance	12969 umhos/cm @ 25c	EPA 120.1	5 umhos/cm @ 25c	2/24/16	MBN
Specific Gravity	1.015 g/ml	SM 2710 F	0.001 g/ml	2/24/16	MBN
Sulfate	2724.97 mg/L	EPA 300.0	0.01 mg/L	2/24/16	MBN
Total Suspended Solids	< 5 mg/L	SM 2540-D	5 mg/L	2/25/16	ISG
Total					
Calcium	1381.0 mg/L	EPA 200.7	0.1 mg/L	2/29/16	ICP
Iron	0.006 mg/L	EPA 200.7	0.005 mg/L	2/29/16	ICP
Magnesium	519.8 mg/L	EPA 200.7	0.1 mg/L	2/29/16	ICP
Sodium	1351.0 mg/L	EPA 200.7	0.1 mg/L	2/29/16	ICP

#### Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM mg/L = Minigrants t et Liler or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

## **Chain of Custody Form**

Information RNL		Bill	To Information (	l' different	from repo	ort to)	Proj	ect Nai	ne				-	Col	orati	Jo A	<b>Nusir</b>	ytical
Company Name: Eccv		Con	npany Name:	_			<u>NW1</u>	P Dec	<u>well</u>					Rric	ehtor	ı Lab		
Contact Name: Clint Carter		Con	tact Name:				Quarterly					240	Sout	th Ma	in Str			
Address: 6201 S Gun Club Rd		Add	Address:					Task Number (Lab Use Only)				Brighton, CO 80601 <u>Lakewood Lab</u> 12860 W. Cedar Dr, Suite 100.  Lakewood CO 80228						
City <u>Aurora</u> State <u>CO</u> Zi	City										Tree of		Pho	ne: 1		59-231		
Phone:3039017681	Fax:	Pho															olab.c	om
Email: cearter@eccv.org	10/2	Em				MONEY CONTROL OF THE PARTY OF T	Dispo	osal Dat	e(Lab l	se Only	<b>(</b> )							<del></del>
Sample Collector: PR	The tree model of the		No.:															
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Surface Water	Compost				No. of Containers	Grab or (Check One Only) Composite	Condutivity	6	rymates/ fymrues FSS		Specific Gravity	Sulfate	Chloride	Magnesium	Sodium	Calcium	Iron Gross Albha pCi/L	ss Be
Date Time		Sample II	D		ž	2 4 5	Cor	SCI	TSS	E	Spe	Sull	5	Ma	Soc	Carl	From Son	Gross
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# **Analytical Results**

TASK NO: 160224093

Report To: Clint Carter

Company: East Cherry Creek Valley Water & San. District

6201 S. Gun Club Road Aurora CO 80016

Bill To: Accounts Payable

Company: East Cherry Creek Valley Water & Sar

6201 S. Gun Club Road Aurora CO 80016

Task No.: 160224093

Client PO:

Client Project: Deep Well Samples

Date Received: 2/24/16 Date Reported: 3/15/16

Matrix: Wastewater

Customer Sample ID Deep Well

Sample Date/Time: 2/24/16

3:00 PM

Lab Number: 160224093-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	3119.5 mg/L	SM 2320-B	0.1	2/29/16	MBN
Calcium as CaCO3	3510.8 mg/L	SM 3111-B	0.1	2/29/16	ICP
Carbonate	< 0.1 mg/L	SM 2320-B	0.1	2/29/16	MBN
Langelier Index	2.05 units	SM 2330-B		3/1/16	SAN
pH	7.01 units	SM 4500-H-B	0.01	2/24/16	MBN
Temperature	20 °C	SM 4500-H-B	1	2/24/16	MBN
Total Alkalinity	2557.0 mg/L as CaCO3	SM 2320-B	0.1	2/29/16	MBN
Total Dissolved Solids	10532 mg/L	SM 2540-C	5	2/26/16	ISG

#### Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB
mpn/100 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

## Chain of Custody Form

T21.11	Informati	on		В	ill To Information (	If different fro	m repo	rt to)	Project	Name		************			Co	lora	do	Ana s. Inc	alyti	cal
	Name: <u>Ecc</u> ame: <u>Clint</u>				Company Name:			THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRE	<u>NWTP</u> <u>Quarter</u>		<u>Vell</u>				240		th N	<u>ab</u> Aain S O 800		t
Address: 6201 S Gu  City Auro  Phone:303  Email: ecc	ra St 39017681 arter <i>ig</i> 'eccy.	ate CO Zi	ip <u>80016</u> Fax:	C P	City St Chone: Fa	ateZip	- All Marie Brown				ber (Lab Usc Only) te(Lab Use Only)			Lakewood Lab 12860 W. Cedar Dr, Suite 10 Lakewood CO 80228 Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com						
		C.	ample Motrix (	Salant One C	hate)		T							***************************************		Ī				
Sample Matrix (Select Compost Soil Surface Water Compost Compo					Plant Tissue Other		No. of Containers	Grab or (Check One Only) Composite	tivity	Nitrates / Nitrites	ga (higusenen et abracidocadabbatania),	pH Specific Gravity		de	SŠĽIII		=		Gross Alpha pCi/I.	Gross Beta pCVL
Date	Time		Compost	Sample	ID		No. of	Grab or (Check ( Composite	Condutivity	Nitrat	SSI	PH Specif	E.S.	Sulfate	Magnesium	Sodium	Calcium	lron	Gross	Gross
2/24/16	15:00	Deep We	"				3													
Instructio						C/S Info:		and		*************	Charge	] Te	8.3	°C/Ice	-X			res. Yes		• <b>□</b>
Relinquis			te/Time: 24/16	Received By:	Date/T	ime: 1 1/16	Relingi	ished By:		Date	Time:		Receiv	ed By:	•			Date/	Time	

### ANALYTICAL SUMMARY REPORT

March 15, 2016

Colorado Analytical Laboratories Inc PO Drawer 507 Brighton, CO 80601

Work Order:

C16020745

Project Name:

160224093 Deep Well Samples

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 2/29/2016

for analysis.

Lab IDClient Sample IDCollect DateReceive DateMatrixTestC16020745-001160224093-01B Deep<br/>Well02/24/16 15:00 02/29/16Waste Water<br/>Gross Alpha, Gross BetaPreservation by the Laboratory<br/>Gross Alpha, Gross Beta

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call,

Report Approved By:

25 2

Digitally signed by Randy Horton Date: 2016.03.15 11:52:58 -06:00



Trust our People. Trust our Data.

Billings, MT 800,735,4489 . Casper, WY 888,235,0515

College Station, TX 888.690.2218 \* Gillette, WY 866.686.7175 \* Helena, MT 877.472.0711

CLIENT:

Colorado Analytical Laboratories Inc

Project:

160224093 Deep Well Samples

Work Order:

C16020745

Report Date: 03/15/16

**CASE NARRATIVE** 

Prep Comments for Sample C16020745-001A, Test PRESERVATION: - The sample fraction submitted for Radiochemical Analysis was received in the laboratory with a pH of  $\sim$  7. This is outside of the method specified requirement of pH < 2. Proper preservation was added before sample analysis.

### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project: Lab ID:

160224093 Deep Well Samples

Client Sample ID: 160224093-01B Deep Well

C16020745-001

Report Date: 03/15/16

Collection Date: 02/24/16 15:00

DateReceived: 02/29/16

Matrix: Waste Water

					MCL/		
Analyses	Result U	Inits	Qualifiers	RL	QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha	308 p	Ci/L				E900.0	03/11/16 18:01 / plj
Gross Alpha precision (±)	92.6 p	Ci/L				E900.0	03/11/16 18:01 / plj
Gross Alpha MDC	60.6 p	Ci/L				E900.0	03/11/16 18:01 / plj
Gross Beta	99.4 p	Ci/L				E900.0	03/11/16 18:01 / plj
Gross Beta precision (±)	41.2 p	Ci/L				E900.0	03/11/16 18:01 / plj
Gross Beta MDC	82.6 p	Ci/L				E900.0	03/11/16 18:01 / plj

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



Billings, MT 800.735,4489 • Casper WY 888,235.0515

College Station, TX 888.690.2218 \* Gillette, WY 866.686.7175 \* Relena, MT 877.472,0711

## **QA/QC Summary Report**

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc

Project: 160224093 Deep Well Samples

C16020725-001AMSD

Report Date: 03/15/16 Work Order: C16020745

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E900.0	***************************************	***************************************							Batch: Gr/	AB-2205F
Lab ID:	Th230-GrAB-2205	La	boratory Cor	ntrol Sample			Run: TENN	IELEC-3_16030	7B	03/11	16 18:01
Gross Alp	ha		125	pCi/L		119	80	120			
Lab ID:	Sr90-GrAB-2205	La	boratory Cor	ntrol Sample			Run: TENN	JELEC-3_16030	7B	03/11	/16 18:01
Gross Bet	a		207	pCi/L		107	80	120			
Lab ID:	MB-GrAB-2205	6 Me	ethod Blank				Run: TENN	IELEC-3_16030	7B	03/11	/16 18:01
Gross Alp	ha		2	pCi/L							
Gross Alp	ha precision (±)		1	pCi/L							
Gross Alp	ha MDC		1	pCi/L							
Gross Bet	а		0.005	pCi/L							U
<b>Gross Bet</b>	a precision (±)		2	pCi/L							
Gross Bet	a MDC		3	pCi/L							
Lab ID:	C16020725-001AMS	Sa	mple Matrix	Spike			Run: TENN	IELEC-3_16030	7B	03/11	/16 18:01
Gross Alp	ha		105	pCi/L		94	70	130			
Lab ID:	C16020725-001AMSD	) Sa	mple Matrix	Spike Duplicate			Run: TENN	IELEC-3_16030	7B	03/11	/16 18:01
Gross Alp	ha		91.3	pCi/L		82	70	130	14	49.9	
Lab ID:	C16020725-001AMS	Sa	mple Matrix	Spike			Run: TENN	IELEC-3_16030	78	03/11	/16 18:01
Gross Bet	a		219	pCi/L		113	70	130			

Sample Matrix Spike Duplicate

pÇi/L

226

#### Qualifiers:

Lab ID:

Gross Beta

Run: TENNELEC-3\_160307B

130

2.7

70

03/11/16 18:02

30.7

Billings, MT 800.735,4489 \* Casper, WY 888,235,0515

College Station, TX 888,690,2218 \* Gillette, WY 866,686,7175 \* Helena, MT 877,472,0711

# Work Order Receipt Checklist

#### Colorado Analytical Laboratories Inc C16020745 Date Received: 2/29/2016 Login completed by: Dorian Quis Received by: dcq Reviewed by: Corinne Wagner Carrier name: Ground Reviewed Date: 3/2/2016 Shipping container/cooler in good condition? Yes 🗸 No 🗌 Not Present Custody seals intact on all shipping container(s)/cocler(s)? Yes [ No 🗀 Not Present [✓] Custody seals intact on all sample bottles? Yes 🗌 No 🔲 Not Present ✓ No 🗌 Chain of custody present? Yes [✓] Chain of custody signed when relinquished and received? Yes 🗸 No 🗍 Chain of custody agrees with sample labels? Yes 🗸 No 🗌 Samples in proper container/bottle? Yes 🗸 No [ Yes 🗸 No 🔲 Sample containers intact? No 🗌 Sufficient sample volume for indicated test? Yes 🗸 All samples received within holding time? Yes 🗸 No 🗀 (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) Temp Blank received in all shipping container(s)/cooler(s)? Yes [ No V Not Applicable 11.2°C Blue Ice Container/Temp Blank temperature: Water - VOA vials have zero headspace? Yes 🗍 No 🗌 Not Applicable No 🗌 Water - pH acceptable upon receipt? Yes [ Not Applicable $\mathbf{\nabla}$ **Standard Reporting Procedures:** Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time. Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis. **Contact and Corrective Action Comments:** None

## Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name
Company Name: Colorado Analytical	Company Name: Same	160224093
Contact Name: Stuart Nielson	Contact Name:	Deep Well Samples
Address:	Address:	Task Number (Lab Use Only)
240 S. Main St	pers or Autopological	(=== ====,)
City Brighton State CO Zip80601	City State Zip	
Phone:303-659-2313 Fax:303-659-2315	Phone: Fax:	
Email: stuartnielson@coloradolab.com	Email:	Disposal Date(Lab Use Only)
Sample Collector: P.R.	PO No.:	
	Email:	Disposal Date(Lab Use On



Brighton Lab
240 South Main Street
Brighton, CO 80601
Lakewood Lab
12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

		ORIGINAL CO		TATAMA CAMADA		DESCRIPTION OF THE PARTY OF THE		<del></del>	<del>,                                     </del>		CI	ر وفرم	745		
Waste	Water 🗌		Soil Sludge Compost		Plant Tissue Other		No. of Containers	Grab or (Check One Only) Composite	Gross Alpha/Beta EPA900						
2/24/16 1:	500	16022409.	3-01B Deep Well				1								
			\$0.000 m			- 1000 HE GOVERNMENT									
Instructions	Shin to En	perov Lahe I	Ja BPS			C/S Info:									
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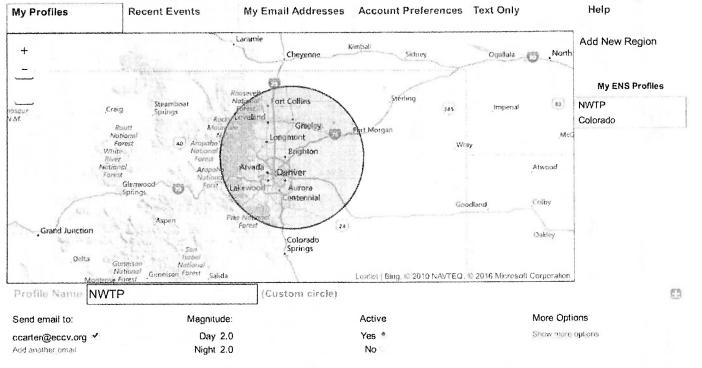


No Earthquake actualy in the last go days

### **Earthquake Hazards Program**

## Welcome to the Earthquake Notification Service

Logout



Save Changes

Discard Changes

Delete Region

#### Map not working? Use the text-based interface

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